

**HIGH BANDWIDTH LOW NOISE CROSS-COUPLED AMPLIFIER****ABSTRACT OF THE DISCLOSURE**

A differential amplifier circuit for amplifying an input signal and for providing an output signal representative of the input signal includes first and second amplifier circuits, and first and second coupling circuits. The first and second amplifier circuits each include first and second transistors, a resistor, and a current generator. The first coupling circuit includes a transistor, a capacitor, and a current generator, and couples a first input signal node to the first transistor of the second amplifier circuit. The second coupling circuit includes a transistor, a capacitor, and a current generator, and couples a second input signal node to the first transistor of the first amplifier circuit.

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